This is issue number one of the NEW JERSEY PACKET RADIO NEWSLETTER this will be an informal newsletter to keep the packet radio community of New Jersey informed as to what is going on and to inform certain individuals and organizations involved in packet radio as to what we are doing.

It was decided at the first meeting (Bell Tel Labs - 18 Dec 81) that we really didn't want to form another organization as we all had plenty to deal with as it is. We have found that our own associations and clubs have given us sufficient where-with-all to make the large purchases to get the discounts and provide low cost parts procurement for those interested. However we still have some small problems with individuals saying "yeah... I want one....get me one!" and then waiting a while for money. To keep the current system viable it is imperative that all requests for equipment be a cash-up-front arrangement.

While on the subject of cash. This newsletter is a small scale effort and will require only postage and very minor outlays. If you wish to continue to receive the newsletter I would request that each individual send me a book of 20 cent stamps or its cash equivalent. This should pretty much cover a year of monthly mailings with an occasional extra large mailing. For out of staters and organizations I would be happy just to receive your own mailings, so that I may include any pertinent information for our own readers.

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The general organization of our disorganized group is as follows;

North Jersey - Ramapo Mountain area - Steve Robinson W2FPY
Central Jersey - Cherryville area - Bill Ashby K2TKN
Eastern Jersey - Bell Labs area - Paul Newland AD7I
South Jersey -Pine Barrens area - Brian Riley KA2BQE

We have also established formal coordination with the following areas;

North - Albany,NY area - Howard Lester W2ODC
Northeast - ARRL HQ - Ed Kalin K1RT
AMSAT - Warwick,NY - V Risortella WA2LQQ
South - AMRAD Va. - Dave Borden K8MMO
West - Tucson, Az area - Den Conners KD2S

Through the generaous effort of Charlie Kosman WB2NQV and Bill Ashby K2TKN we have a superb communications arrangement through the Cherryville Repeater Association repeater complex. By linking the Cherryville 147.375/.975 machine to the Martinville 146.625/.025 machine we are able to meet on Sunday evenings at 2100 EST for a weekly net to exchange information and ideas. In addition the 375 machine is generally monitored by the bulk of our

group and used for informal discussions nightly.

An additional developement has grown from my corrdination with Den Connors in Arizona. Their group gets together, physically on Saturday mornings. We have arranged to link up on fifteen meters (21.280 Mhz - up 10khz if busy) on Saturday mornings with Bob KB2EF phone patching this end into the Cherryville repeater. Once we smooth the path out we will attempt to send low speed ASCII data on the channel as well. It should provide excellent opportunity for cordination with this farther removed (from us) group and an excellent chance to check out packet transmissions at the HF level.

ARIZONA TNC

This Arizona group has developed a TNC board based around a 6502B processor and a WD1933 controller. The operating system is written in FORTH. Specifically it is in Kitt Peak FORTH or MMTFORTH which is the orginal FORTH language developed by Charles Moore there at the Kitt Peak Observatory for controlling telescope movements. For those unfamiliar with FORTH it is an interpretive language, much faster than BASIC, that is similar to APL. FORTH is a language of succesive definitions. It is often said that the more you program in FORTH, the less you program in FORTH, since all that was defined before may be used in future definitions. Anyway, their board design has to levels of implementation. At the simplest level it employs a 'compiled' FORTH program (i.e. Written in FORTH and compiled into machine code). It is relatively inflexible and to be changed must be recompiled. The advantage here is that a FORTH compiler can be set up and running on a machine with tape and 16k . The higher level implementation has the operating system governed by a full blown FORTH interpretive system which may be taken off line and used to reprogram itself, or dynamically reprogrammed while still "listening". Remember the key to the FORTH genius is that the bulk of 'definition' of the operating system is already in place. A simple keyboard entry of 20 or 30 keystrokes can completely redefine the nature of the system yet only take seconds to implement.

The board hardware consists of the 6502B,WD1933,8k RAM,8-24k ROM and associated support chips. The board features on board 202 modem using the EXAR chips. The board is designed to easily bypass the modem for higher baud rates and/or different modulation schemes. The board will provide an area for klusing and experimentation. Den Conners and his group are in the process of drawing up schematics of the revised board and I should have them soon. We will also have copies of their software as soon as it is available also.

DATA TRANSFER

There has been some considerable discussion and debate on the medium for interchanging information. We get into difficulty

"CONNECT" - NEW JERSEY PACKET RADIO NEWSLETTER
C/O B.B. RILEY KA2BQE
RD #2 BURNT HOUSE ROAD
INDIAN MILLS, NEW JERSEY 08088

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Hank Magnuski KA6M
311 Stanford Avenue
Menlo Park, Cal. 94025

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NEW JERSEY PACKET RADIO CONTACT PERSONNEL

NORTH
STEVE ROBINSON W2FPY
47 SERPENTINE DRIVE
RINGWOOD, NJ 07456
201-835-1152

EAST
PAUL NEWLAND AD7I
30 VICTORIA PLACE
RED BANK, NJ 07701
201-741-1151

CENTRAL
BILL ASHBY K2TKN
BOX332
FLUCKEMIN, NJ 07978
201-658-3087

SOUTH
BRIAN RILEY KA2BQE
RD 2 BURNT HOUSE ROAD
INDIAN MILLS, NJ 08088
609-268-1505

because not everybody has a disk or a tape or CP/M versus PET versus whatever! All of us who are anywhere near ready to go have one medium which can or already have used on the air which can allow a highly compatible exchange medium. We all have or will soon have, or have access to a 202 modem. You don't have to use it on a radio or a telephone. It has already been discussed as a means of testing a TNC is to run the modem into a recorder. Why not use our 202 standard modems as a tape interface for data exchange when all else fails. I know the disk boys are groaning - I can hear it already, but there are an awful lot of us out here who don't have and may never have a disk, or at least not soon. The use of the '202 tape standard' eliminates the myriad of odd tape formats through the various manufacturers. There only needs to be a standard for the data layout. One suggestion I have had is the Motorola 'punch' format. Someone else said Intel. I am open to suggestions. If I get enough response I'll publish a format next month and we'll use that. This is not meant to be a big deal, just a tool to get things done in a manner that everyone can handle.

PACKET MEETING - FLEMINGTON NJ 23 JAN 82

The second meeting was well attended including a cast of distinguished guests from AMRAD . Ostensibly the meeting was for the purpose of defining the protocol so that Terry Fox could write it. The cast in bronze decision wasn't made, but the meeting was highly productive.

Generally the Vancouver protocol will be retained, with the one byte address field. There will be a specific address value which will decode as saying "look in the front of the data to find the address for beyond the local node" . It was agreed that the addressing will be done with amateur call signs for the sending and target stations and may also contain the 'node' address also as the amateur call sign of that repeater .

There was an awful lot more to the meeting. My thanks to the fine notes taken by Gwynn Reedy W1BEL. I'll need some time to organize the material for summary, as the discussion apparently jumped around alot. I'll have them next month I hope.

EQUIPMENT AVAILABILITY .

W2FPY - Steve Robinson - General Datacom GDC-202-5B Bell 202 modems - $55 - these are 'Cadillac creampuffs'. They are mint condition Western Union surplus. Part of the money is cost, part to AMSAT and part to the packet repeater putter-uppers relief slush fund (with recent weather 'slush' is right!). Its a steal at $55 they sell for 600 new!

WB2CAM - Gordon Beattie - DEC Writers 300 baud - $400 and 1200 baud $550. They are in excellent condition - get em while they last - K2TKN and KB2EF have them so you can check before you buy.

K2TKN - Bill Ashby - complete chip sets for the Vancouver

board. About $150 complete with programmed 2708's. Boards from Steve W2FPY , about $35 , when we get them - still waiting.

MISCELLANEOUS

Included at the end here is the current mailing list. You'll notice that there are still some unknown calls and phones. Please inform me of any corrections or additions. Please have anyone who is interested send me the information for the list.

In the San Francisco area there is a computer on HF. W6LLO is running a RTTY modem (2125/2295 shift) into a Data General on 14.076.5 Mhz.

Gordon's WB2CAM CBBS is on most of the time. It is the bulletin board for New Jersey packet enthusiasts. It is listed in the mailing list. Just hit C/R's til the machine figures out if you are 300 or 1200 (103 or 212).

If you have material to be printed Just mail it to me care of my address in the list.

73
de KA2BQE

###T [DATA FIELD #1	]DATA FIELD #2	]DATA FIELD #3	]C #4]
1 NAME	ADDRESS	CITY/STATE	ZIP-6
2 (H) HOME PHONE	(W) WORK PHONE	(B) BUL-BRD/COMPUTER	CALL-6
		##-#### HOURS OF OPERATION	
		###/### BELL MODEM STD'S	

0011 RILEY BRIAN B	RD#2 BURNT HOUSE ROAD	INDIAN MILLS, NJ	08088
0012 H609-268-1505	W609-778-1717	B	KA2BQE
0021 REEDY M GWYNN	3 BAYAU TRAIL	MEDFORD, NJ	?????
0022 H609-654-1184	W609-724-3792	B	W1BEL
0031 ROBINSON STEVE	47 SERPENTINE DRIVE	RINGWOOD, NJ	07456
0032 H201-835-1152	W914-351-5277	B201-835-0161 103/202	W2FPY
0041 MOORE DON	11 WOODSIDE PLACE	HOLMDEL, NJ	07733
0042 H201-739-2445	W???-???-????	B	WB2KOT
0051 KOSMAN CHARLIE	RD2 BOX 249	ANNANDALE, NJ	08801
0052 H201-735-7366	W???-???-????	B	WB2NQV
0061 ASHBY BILL	BOX 332	PLUCKEMIN, NJ	07978
0062 H201-658-3087	W???-???-????	B201-658-3087	K2TKN
0071 ADAMS RONALD	RD4 SUMMIT DRIVE	TABERNACLE, NJ	08088
0072 H609-268-0958	W609-235-6277	B	WB2YZS
0081 WILLIAMS CURTIS	RD3 BOX175	CALIFON, NJ	07830
0082 H201-832-2821	W???-???-????	B	W5DTR
0091 CUMMINGS JOHN	A885 1750 RALEIGH CT E	OCEAN, NJ	07712
0092 H201-493-4715	W???-???-????	B	KA1ATS
0101 BEATTIE J GORDON	45 UNION AVENUE	LITTLE FALLS, NJ	07424
0102 H201-785-2324	W???-???-????	B201-785-3565 103/212	WB2CAM
0111 FRIEDMAN MICHAEL	29 BERWYN PLACE	GLEN ROCK, NJ	07452
0112 H201-444-1522	W???-???-????	B201-444-1522 00-0900	??????

0121 FOX BRIAN	636 QUINTON RD	SALEM, NJ	08079	
0122 H609-882-7964	W???-???-????	B	WB2LTW	
0131 NEWLAND PAUL	30 VICTORIA PLACE	RED BANK, NJ	07701	
0132 H201-741-1151	W201-949-3731	B	AD7I	
0141 CARROLL BRUCE	529 CHARLESTON ROAD	MT LAUREL, NJ	08054	
0142 H609-234-6385	W609-234-5020	B	WA3RHW	
0151 ZAHARCHUK MARC	2940 W POPLAR ST	PHILADELPHIA, PA	19130	
0152 H215-232-6618	W215-823-2244	B	WA3CRM	
0161 KALIN ED	83 KENMORE ROAD	BLOOMFIELD, CT	06002	
0162 H203-233-4532	W203-727-6176	B	K1RT	
0171 LESTER HOWARD	PO BOX 6	ALPHAUS, NY	12008	
0172 H518-399-0363	W???-???-????	B	W2ODC	
0181 LONG ROGER	132 MAIN STREET	GLEN GARDINER, NJ	?????	
0182 H201-537-4610	W???-???-????	B	WB2VBN	
0191 PATMOS WILLIAM	1054 MARYLAND AVENUE	SCHENECTADY, NY	12308	
0192 H518-346-1382	W???-???-????	B	W2DHT	
0201 FOX TERRY	1819 ANDERSON ROAD	FALLS CHURCH, VA	22043	
0202 H703-356-8334	W???-???-????	B	WB4JFI	
0211 HEISLER RAY	657 DAKOTA TRAIL	FRANKLIN LAKES, NJ	07417	
0212 H201-891-5146	W???-???-????	B	WA2PJV	
0221 SLAPIN BILL	BOX 308 WOODGLEN RD	CALIFON, NJ	07830	
0222 H201-633-8437	W???-???-????	B	K2VHV	
0231 WASHBURN CARVER	28 SWISS TERRACE	WAYNE, NJ	07470	
0232 H201-694-3336	W???-???-????	B	W2TFM	
0241 BORDEN DAVE	RT 2 BOX 233 B	STERLING, VA	22170	
0242 H703-450-5284	W???-???-????	B	K8MMO	
0251 CHRISTIANSEN BOB	RD 3 BOX 1 A	NESHANIC STATION, NJ	08853	
0252 H201-369-7038	W???-???-????	B	KB2EF	
0261 RINALDO PAUL	1524 SPRINGVALE AVE	MCLEAN, VA	22101	
0262 H703-356-8918	W703-734-0878	B703-893-W4RI	W4RI	
0271 SANDERS ELTON (SANDY)	404 PARK ST S.E.	VIENNA, VA	22180	
0272 H703-281-1298	W???-???-????	B	WB5MMB	
0281 CONNERS DEN	COMP CNTR UNIV ARIZONA	TUCSON,ARIZONA	85721	
0282 H602-744-9306	W602-626-2239	B	KD2S	
0291 RIPORTELLA VERN	PO BOX 177	WARWICK, NY	10990	
0292 H???-???-????	W???-???-????	B	WA2LQQ	

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